Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Name of Work :- Improvements to Roads Drains Footpath and Parks in Ward No. 08 Kodigehalli (Package includes 11 Works of Rs 1010/-Lakhs) Package. Providing & Supplying For Childrens Play Equipments

Job Code :- 008-17-000035, 008-17-000036, 008-17-000037, 008-17-000038, 008-17-000039, 008-17-000040, 008-17-000041, 008-17-000042, 008-17-000043, 008-17-000044, 008-17-000045, 25347

Name of Agency :- M/s Karthik Enterprises

Bill No :- 7th Bill

Measurements recorded on

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
1	Supply & Fixing of Pull Down chalenger Metal : All Tubular steel f2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size L W H): 2570 805 2685 mm. Weight: 85.4 kg. Safety Area:6287* 4858 mm Capacity_2 Persons.									
	Sakaranagar Park								1.00	
								Total Quantity	**1.00**	

Consultant

Assistant Engineer

Assistant Executive Engineer

Measurements recorded on

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
3	Supply & Fixing of Elliptical Cross Trainer: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all Sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN 16630 and the maintenance guide. Safety: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. SizeJ L W* H: 1267 * 582* 1764 mm. Weight: 43.5 kg. Safety Area: 4322 3632 mm Capacity_ I Persons									
	Sahakaranagar Park								1.00	
								Total Quantity	**1.00**	Each

TEJUS CONSULTANTS
Consultant

Assistant Engineer

Assistant Executive Engineer

Measurements recorded on										
BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
4	Supply & Fixing of Rider Metal All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles .Bearings Maintenance-free ball bearings . Scope of delivery 1 completely pre -assembled equipment modules Maintenance: Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA ,TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size_L*W*H): 910 655 1270 mm. Weight: 29.5 kg. Safety Area 3310 3000 mm Capacity Persons									
	Sahakaranagar Park								1.00	
								Total Quantity	**1.00**	Each

Consultant

Assistant Engineer

Assistant Executive Engineer

Measurements recorded on

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
5	Supply & Fixing of Bicycle. Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles . Bearings Maintenance-free ball bearings . Scope of delivery: 1.completely pre -assembled equipment modules Maintenance Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN 16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size L*W*H): 1000*498*1290 mm .Weight: 51.5 kg. Safty Area 3400*3498 mm Capacity 1 Persons									
	Sahakaranagar Park								1.00	
								Total Quantity	**1.00**	Each

TEJUS CONSULTANTS
Consultant

Assistant Engineer 408 20/2

Assistant Executive Engineer
Kodigehalli Sub Division

Measurements recorded on										
BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
6	Supply & Fixing of Arm & Pedal Bike Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped . Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL n in accordance to IS 07227 to speed up corrosion for 3000 hrs. Rubber High quality grip rubber is used for the handles .Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA ,TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size.L*W*H: 830*500*1450 mm. Weight: 32 kg. Safety Area : 3830*2900 mm Capacity_I Persons									
	Sahakaranagar Park								1.00	
								Total Quantity	**1.00**	Each

TEJUS CONSULTANTS
Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer

Measurements recorded on										
BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
7	Supply & Fixing of HD Sit Up Station Metal: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joint are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel -Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL sokátion in accordance to IS 07227 to speed up corrosion for 3000 hrs. Rubber : High quality ip rubber is used for the handles . Bearings : Maintenance-free ball bearings . Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party: All products must clearly display the GS mark as has been issued in the EN 16630 safety) certificates. Size _L*W*H): 1412*1366*650 mm. Weight : 42.6 kg. Safety Area.									
	Sahakaranagar Park								1.00	
								Total Quantity	1.00	Each

TEJUS CONSULTANTS

Consultant

Assistant Engineer

Assistant Executive Engineer

Measurements recorded on

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
8	Supply & Fixing of HD mini Ski Metal: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All mêtal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles .Bearings: Maintenance-free ball bearings Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide . Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been.									
	Sahakaranagar Park		Each						1.00	
								Total Quantity	**1.00**	

TEJUS CONSULTANTS
Consultant

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.

Measurements recorded on

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
9	Supply & Fixing of HD Squat Pushing Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped . Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All mêtal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles Bearings Maintenance-free ball bearings . Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark -EN16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L *W * H): 2270 * 635* 1640 mm. Weight: 60.2 kg. Safety Area 5300 * 3685 mm Capacity_2 Persons.									
	Sahakaranagar Park								1.00	
								Total Quantity	**1.00**	Each

TEJUS CONSULTANTS
Consultant

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

Measurements recorded on

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
10	Providing children play standred spring duck Equipment : The system consists of and FRP coloured duck rocking on 10mm dia heavy duty coiled spring including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead , lift, loading , unloading and any other incidental charges and as per the drawing and specifiactins and direction of he engineer in charge of the work.									
	Sahakaranagar Park								1.00	
								Total Quantity	**1.00**	Each

TEJUS CONSULTANTS

Consultant

Assistant Engineer

Assistant Executive Engineer

Measurements recorded on

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
11	Providing Children play Standerd Duck Wheel Equipment : This is a Micro Revolver made up of an 4 feet diameter platform with 1.5mm thick Aluminium Chequered plate supported well two Nos of ball bearings. 2 nos LDPE ducks and 1 No of plastic sheet flat seats, all supported to vertical pillars of size 25mm NB pipes. All pipes are of ISI grades. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromae yellow Oxide including fixing the play equipments in CC 1:2:4 curing etc /. Complete with all lead , lift loading and unloading and any other incidental charges and as per the drawing and specification and direction of the Engineer in chrage of the work.									
	Sahakaranagar Park								1.00	
								Total Quantity	**1.00**	Each

TEJUS CONSULTANTS
Consultant

Assistant Engineer 20/2

Assistant Executive Engineer

Measurements recorded on

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
12	Providing children play two seater standred swing equipment : This swing consist of 2 nos seat of powder coated of size 500mmx250mm x16SWG supported by M S chains of length 18mtrs each seat is suspended by 1 lines of chains. The chains are supported by circular housing with bearing from which the chain is suspended. The main beam is of 50mm MS 'A' class pipe. Size of MS chain 30mm X20mm X5mm thick, the lengh the main beam is 2.4mtrs and height of 2.00mtrs. 2 Nos of cast iron heads. Four footing are in 42 mm pipes. All pipes are ISI Grade, All the pipes are painted with two coats of SUpwe set of paint Over a coat of Protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4 curing Etc,, complete with all lead, lift loading and any other incidental charges and as per the drawing and specification and direction ofthe engineer in charge.									
	Sahakaranagar Park								1.00	
								Total Quantity	**1.00**	Each

TEJUS CONSULTANTS
Consultant

Assistant Engineer 13.08.2012

Assistant Executive Engin
Kodigehalli Sub Divisio
Assistant Excecutive Engineer
Yelahanka Zone, B.B.M

Measurements recorded on

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
13	Providing and fixing standard slide of approved quality and design as per the drawing and specification and direction of the Engineer in chrage of the work.									
	Sahakaranagar Park								1.00	
								Total Quantity	**1.00**	Each

TEJUS CONSULTANTS
Consultant

Assistant Engineer

Assistant Executive Engineer
Assistant Executive Engineer